



Day : Friday
Date: 11/5/2004
Time: 09:07:33

Inventor Name Search

Enter the **first few letters** of the Inventor's Last Name.
Additionally, enter the **first few letters** of the Inventor's First name.

Last Name	First Name	
<input type="text" value="Curiel"/>	<input type="text" value="David"/>	<input type="button" value="Search"/>

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	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND		
<u>L11</u>	Romanczuk-Helen.in.	7	<u>L11</u>
<u>L10</u>	L4 and (pIIla or pIX or (minor adj capsid))	18	<u>L10</u>
<u>L9</u>	L5 not L6	12	<u>L9</u>
<u>L8</u>	L6 not L7	38	<u>L8</u>
<u>L7</u>	L6 and (prodrug or HSV-TK or ganciclovir)	17	<u>L7</u>
<u>L6</u>	L5 and (tumor or cancer)	55	<u>L6</u>
<u>L5</u>	L4 and (sc-Ab or antibody)	67	<u>L5</u>
<u>L4</u>	L3 same (adenoviral or adenovirus)	78	<u>L4</u>

L3 (modified or modifying) same (capsid adj protein)
L2 L1 and (capsid)
L1 Curiel-David-T\$.in.

381 L3
23 L2
64 L1

END OF SEARCH HISTORY

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Logon file001 05nov04 10:19:02

*** ANNOUNCEMENT ***

--Connect Time joins DialUnits as pricing options on Dialog.
See HELP CONNECT for information.

--SourceOne patents are now delivered to your email inbox
as PDF replacing TIFF delivery. See HELP SOURCE1 for more
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--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

NEW FILES RELEASED

***Beilstein Abstracts (File 393)

***Beilstein Facts (File 390)

***Beilstein Reactions (File 391)

***F-D-C Gold/Silver Sheet (File 184)

***BIOSIS Toxicology (File 157)

***IPA Toxicology (File 153)

UPDATING RESUMED

*** RELOADED

***Toxfile (File 156)

REMOVED

***Textile Technology Digest (File 119)

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KWIC is set to 50.

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File 1:ERIC 1966-2004/Jul 21

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Cost is in DialUnits

?

B 155, 159, 5, 73

05nov04 10:19:28 User259876 Session D688.1

\$0.81 0.230 DialUnits File1

\$0.81 Estimated cost File1

\$0.11 INTERNET

\$0.92 Estimated cost this search

\$0.92 Estimated total session cost 0.230 DialUnits

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File 155:MEDLINE(R) 1951-2004/Oct W5

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***File 155: Medline will stop updating COMPLETED records on November 17,**
2004. Please see HELP NEWS 155 for details.

File 159:Cancerlit 1975-2002/Oct

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***File 159: Cancerlit is no longer updating.**

Please see HELP NEWS159.

File 5:Biosis Previews(R) 1969-2004/Oct W5

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File 73:EMBASE 1974-2004/Oct W5
(c) 2004 Elsevier Science B.V.

Set	Items	Description
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?		
S		(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
	517435	MODIFIED
	61994	MODIFYING
	38937	CAPSID
	4312026	PROTEIN
S1	278	(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
?		
S S1		(S) (ADENOVIRUS OR ADENOVIRAL)
	278	S1
	82871	ADENOVIRUS
	19252	ADENOVIRAL
S2	16	S1 (S) (ADENOVIRUS OR ADENOVIRAL)
?		
RD		
...		completed examining records
S3	6	RD (unique items)
?		
T		S3/3,K/ALL

3/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

16907126 PMID: 14759804
Development of efficient viral vectors selective for vascular smooth muscle cells.
Work Lorraine M; Nicklin Stuart A; Brain Nick J R; Dishart Kate L; Von Seggern Dan J; Hallek Michael; Buning Hildegard; Baker Andrew H
Division of Cardiovascular & Medical Sciences, Glasgow Cardiovascular Research Centre, University of Glasgow, Glasgow G11 6NT, UK.
Molecular therapy - the journal of the American Society of Gene Therapy (United States) Feb 2004, 9 (2) p198-208, ISSN 1525-0016
Journal Code: 100890581
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...primary human saphenous vein SMC with linear and cyclic libraries. Two linear peptides, EYHHYNK (EYH) and GETRAPL (GET), were incorporated into the HI loop of adenovirus (Ad) fibers and the capsid protein of adeno-associated virus-2 (AAV-2). Exposure of human venous SMC to EYH-modified (but not the GET-modified) Ad vector resulted in a significant increase in transgene expression levels at short, clinically relevant exposure times. Similarly, the EYH-modified AAV vector resulted in enhanced gene transfer to human venous SMC but not endothelial cells in a time- and dose-dependent manner. The EYH-modified AAV vector also enhanced (up to 70-fold) gene delivery to primary human arterial SMC. Hence, incorporation of EYH into Ad and AAV capsids resulted...

3/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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15961110 PMID: 15016870
Spacers increase the accessibility of peptide ligands linked to the carboxyl terminus of adenovirus minor capsid protein IX.
Vellinga Jort; Rabelink Martijn J W E; Cramer Steve J; van den Wollenberg

Diana J M; Van der Meulen Hans; Leppard Keith N; Fallaux Frits J; Hoebe Rob C

Department of Molecular Cell Biology, Leiden University Medical Centre, 2333 AL Leiden, The Netherlands.

Journal of virology (United States) Apr 2004, 78 (7) p3470-9, ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... with human adenovirus (hAd)-derived gene transfer vectors would be improved if the native viral tropism could be modified. Here, we demonstrate that the minor **capsid protein IX** (pIX), which is present in 240 copies in the Ad capsid, can be exploited as an anchor for heterologous polypeptides. Protein IX-deleted hAd5...

...of coxsackievirus group B and hAd receptor-deficient endothelioma cells, demonstrating the utility of pIX modification in gene transfer. Our data demonstrate that the minor **capsid protein IX** can be used as an anchor for the addition of polypeptide ligands to Ad particles.

3/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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12488281 PMID: 12941917

Heparan sulfates and coxsackievirus-adenovirus receptor: each one mediates coxsackievirus B3 PD infection.

Zautner A E; Korner U; Henke A; Badorff C; Schmidtke M

Institute of Virology and Antiviral Therapy, Friedrich Schiller University-Jena, University Medical Center, Winzerlaer Strasse 10, D-07745 Jena, Germany.

Journal of virology (United States) Sep 2003, 77 (18) p10071-7, ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... exchanges in the virus capsid protein VP1 allow the coxsackievirus B3 variant PD (CVB3 PD) to replicate in decay accelerating factor (DAF)-negative and coxsackievirus- **adenovirus** receptor (CAR)-negative cells. This suggests that molecules other than DAF and CAR are involved in attachment of this CVB3 variant to cell surfaces. The...

... CHO-K1 cells by polycationic compounds, pentosan polysulfate, lung heparin, and several intestinal but not kidney HS supported the hypothesis that CVB3 PD uses specific **modified** HS for entry. In addition, recombinant human hepatocyte growth factor blocked CVB3 PD infection. However, CAR also mediates CVB3 PD infection, because this CVB3 variant...

... and HS-negative pgsD-677 cells transfected with CAR became susceptible for CVB3 PD. These results demonstrate that the amino acid substitutions in the viral **capsid protein** VP1 enable CVB3 PD to use specific **modified** HS as an entry receptor in addition to CAR.

3/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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12227167 PMID: 12571644

Genetic manipulations of adenovirus type 5 fiber resulting in liver tropism attenuation.

Vigne E; Dedieu J-F; Brie A; Gillardeaux A; Briot D; Benihoud K;
Latta-Mahieu M; Saulnier P; Perricaudet M; Yeh P
UMR1582 CNRS/IGR/Aventis, Institut Gustave Roussy, Villejuif, France.
Gene therapy (England) Jan 2003, 10 (2) p153-62, ISSN 0969-7128
Journal Code: 9421525
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...vivo. The human adenovirus serotype 5 (Ad5) first attaches to the cell surface following high-affinity binding of the C-terminal knob of the fiber **capsid protein** to the coxsackie and **adenovirus** receptor (CAR). Here we have assessed whether genetic shortening of the fiber shaft (virus BS1), or replacing the Ad5 fiber shaft and knob with their Ad3 counterparts (virus DB6), could cripple this interaction in vitro and in vivo. A 10-fold decrease in the binding of the **modified** capsids to soluble CAR was evidenced, which correlated with a similar reduction of their ability to transduce CAR-positive cells in vitro. The ability of...

... cell surface receptors (CAR and integrins respectively). BS1 and DB6 intravenous injections in mice further supported a profound impairment of the ability of the capsid- **modified** viruses to transduce the liver as demonstrated by a 10-fold reduction of intracellular viral DNA and transgene expression. Interestingly enough, the host humoral response...

3/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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11878804 PMID: 12072490

Engineering of adenovirus vectors containing heterologous peptide sequences in the C terminus of capsid protein IX.

Dmitriev Igor P; Kashentseva Elena A; Curriel David T
Division of Human Gene Therapy, Department of Medicine, University of Alabama at Birmingham, Birmingham, Alabama 35294-3300, USA.

Journal of virology (United States) Jul 2002, 76 (14) p6893-9,
ISSN 0022-538X Journal Code: 0113724

Contract/Grant No.: N01 C0-97110; PHS; P50 CA89019; CA; NCI; R01 CA68245;
CA; NCI; R01 CA74242; CA; NCI; R01 CA86881; CA; NCI; R01 CA90547; CA; NCI;
R01 HL67962; HL; NHLBI

Document type: Evaluation Studies; Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

The utility of the present generation of **adenovirus** (Ad) vectors for gene therapy applications could be improved by restricting native viral tropism to selected cell types. In order to achieve modification of Ad...

... pIX, we hypothesized that its C terminus could be used as a site for incorporation of heterologous peptide sequences. We engineered recombinant Ad vectors containing **modified** pIX carrying a carboxy-terminal Flag epitope along with a heparan sulfate binding motif consisting of either eight consecutive lysines or a polylysine sequence. Using an anti-Flag antibody, we have shown that **modified** pIXs are incorporated into virions and display Flag-containing C-terminal sequences on the capsid surface. In addition, both lysine octapeptide and polylysine ligands were...

3/3,K/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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07986534 PMID: 2536109
Adeno-associated virus rep protein synthesis during productive infection.
Redemann B E; Mendelson E; Carter B J
Laboratory of Molecular and Cellular Biology, National Institute of Diabetes, Digestive and Kidney Diseases, Bethesda, Maryland 20892.
Journal of virology (UNITED STATES) Feb 1989, 63 (2) p873-82, ISSN 0022-538X Journal Code: 0113724
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

... proteins was synthesized independently and was stable for at least 15 h. A slower-migrating, modified form of Rep78 was identified late after infection. AAV capsid protein synthesis was detected at 10 to 12 h after infection and also exhibited synthesis kinetics similar to those of the Rep proteins. AAV DNA replication...

...defined stages. Bulk duplex replicating DNA accumulation began around 10 to 12 h and reached a maximum level at about 20 h when Rep and capsid protein synthesis was maximal. Progeny single-stranded DNA accumulation began about 12 to 13 h, but most of this DNA accumulated after 24 h when Rep and capsid protein synthesis had decreased.
?

Set	Items	Description
S1	278	(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
S2	16	S1 (S) (ADENOVIRUS OR ADENOVIRAL)
S3	6	RD (unique items)
?		
S S1 AND (ADENOVIRUS OR ADENOVIRAL)		
	278	S1
	82871	ADENOVIRUS
	19252	ADENOVIRAL
S4	16	S1 AND (ADENOVIRUS OR ADENOVIRAL)
?		
R		
>>>Unrecognizable Command		
?		
RD		
...completed examining records		
	S5	6 RD (unique items)
?		
S S5 NOT S3		
	6	S5
	6	S3
S6	0	S5 NOT S3
?		

Set	Items	Description
S1	278	(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
S2	16	S1 (S) (ADENOVIRUS OR ADENOVIRAL)
S3	6	RD (unique items)
S4	16	S1 AND (ADENOVIRUS OR ADENOVIRAL)
S5	6	RD (unique items)
S6	0	S5 NOT S3
?		
S S1 AND ((MINOR (W) CAPSID) OR PIIIA OR PIX)		
	278	S1
	313204	MINOR
	38937	CAPSID
	530	MINOR (W) CAPSID
	34	PIIIA
	618	PIX
S7	18	S1 AND ((MINOR (W) CAPSID) OR PIIIA OR PIX)

?
RD
...completed examining records
S8 7 RD (unique items)
?
T S8/3,K/ALL

8/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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15961110 PMID: 15016870

Spacers increase the accessibility of peptide ligands linked to the carboxyl terminus of adenovirus minor capsid protein IX.

Vellinga Jort; Rabelink Martijn J W E; Cramer Steve J; van den Wollenberg Diana J M; Van der Meulen Hans; Leppard Keith N; Fallaux Frits J; Hoeben Rob C

Department of Molecular Cell Biology, Leiden University Medical Centre, 2333 AL Leiden, The Netherlands.

Journal of virology (United States) Apr 2004, 78 (7) p3470-9, ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Spacers increase the accessibility of peptide ligands linked to the carboxyl terminus of adenovirus minor capsid protein IX.

... transfer with human adenovirus (hAd)-derived gene transfer vectors would be improved if the native viral tropism could be modified. Here, we demonstrate that the **minor capsid protein IX (pIX)**, which is present in 240 copies in the Ad capsid, can be exploited as an anchor for heterologous polypeptides. Protein IX-deleted hAd5 vectors were propagated in hAd5 helper cells expressing **pIX** variants, with heterologous carboxyl-terminal extensions of up to 113 amino acids in length. The extensions evaluated consist of alpha-helical spacers up to 75 A in length and to which peptide ligands were fused. The **pIX** variants were efficiently incorporated into the capsids of Ad particles. On intact particles, the MYC-tagged-**pIX** molecules were readily accessible to anti-MYC antibodies, as demonstrated by electron microscopic analyses of immunogold-labeled virus particles. The labeling efficiency improved with increasing...

... the spacers lift and expose the ligand at the capsid surface. Furthermore, we found that the addition of an integrin-binding RGD motif to the **pIX** markedly stimulated the transduction of coxsackievirus group B and hAd receptor-deficient endothelioma cells, demonstrating the utility of **pIX** modification in gene transfer. Our data demonstrate that the **minor capsid protein IX** can be used as an anchor for the addition of polypeptide ligands to Ad particles.

8/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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11878804 PMID: 12072490

Engineering of adenovirus vectors containing heterologous peptide sequences in the C terminus of capsid protein IX.

Dmitriev Igor P; Kashentseva Elena A; Curiel David T
Division of Human Gene Therapy, Department of Medicine, University of Alabama at Birmingham, Birmingham, Alabama 35294-3300, USA.

Journal of virology (United States) Jul 2002, 76 (14) p6893-9, ISSN 0022-538X Journal Code: 0113724

Contract/Grant No.: N01 CO-97110; PHS; P50 CA89019; CA; NCI; R01 CA68245;

CA; NCI; R01 CA74242; CA; NCI; R01 CA86881; CA; NCI; R01 CA90547; CA; NCI; R01 HL67962; HL; NHLBI

Document type: Evaluation Studies; Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...tropism to selected cell types. In order to achieve modification of Ad tropism, we proposed to exploit a minor component of viral capsid, protein IX (**pIX**), for genetic incorporation of targeting ligands. Based on the proposed structure of **pIX** , we hypothesized that its C terminus could be used as a site for incorporation of heterologous peptide sequences. We engineered recombinant Ad vectors containing **modified pIX** carrying a carboxy-terminal Flag epitope along with a heparan sulfate binding motif consisting of either eight consecutive lysines or a polylysine sequence. Using an anti-Flag antibody, we have shown that **modified pIXs** are incorporated into virions and display Flag-containing C-terminal sequences on the capsid surface. In addition, both lysine octapeptide and polylysine ligands were...

... octapeptide, Ad vector displaying a polylysine was capable of recognizing cellular heparan sulfate receptors. We have demonstrated that incorporation of a polylysine motif into the **pIX** ectodomain results in a significant augmentation of Ad fiber knob-independent infection of CAR-deficient cell types. Our data suggest that the **pIX** ectodomain can serve as an alternative to the fiber knob, penton base, and hexon proteins for incorporation of targeting ligands for the purpose of Ad...

8/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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11176177 PMID: 11163673

Nasal immunization of mice with peptide having a cross-neutralization epitope on minor capsid protein L2 of human papillomavirus type 16 elicit systemic and mucosal antibodies.

Kawana K; Kawana Y; Yoshikawa H; Taketani Y; Yoshiike K; Kanda T

Division of Molecular Genetics, National Institute of Infectious Diseases, 1-23-1 Toyama, Shinjuku-ku, 162-8640, Tokyo, Japan.

Vaccine (England) Jan 8 2001, 19 (11-12) p1496-502, ISSN 0264-410X
Journal Code: 8406899

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Nasal immunization of mice with peptide having a cross-neutralization epitope on minor capsid protein L2 of human papillomavirus type 16 elicit systemic and mucosal antibodies.

... for human papillomavirus types 6 and 16 (HPV 6 and 16) is present in the region of amino acids (aa) 108-120 of HPV-16 **minor capsid** protein, L2. We nasally immunized Balb/c mice with a synthetic peptide with the 13 aa HPV 16 L2 sequence, and examined the antibodies elicited...

...II, did not respond to the peptide immunization, but aa substitutions in the peptide to fulfill the requirement for the C57BL/10 agretope rendered the **modified** peptides immunogenic. The results provide a basis for development of a peptide vaccine against broad-spectrum of genital HPVs for humans.

8/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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10067270 PMID: 8178438

Assembly of the major and the minor capsid protein of human papillomavirus type 33 into virus-like particles and tubular structures in insect cells.

Volpers C; Schirmacher P; Streeck R E; Sapp M

Institute fur Medizinische Mikrobiologie, Universitat Mainz, Germany.

Virology (UNITED STATES) May 1 1994, 200 (2) p504-12, ISSN 0042-6822 Journal Code: 0110674

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Assembly of the major and the minor capsid protein of human papillomavirus type 33 into virus-like particles and tubular structures in insect cells.

... genital lesions, HPV-33, produced in high yield using the baculovirus expression system. Assembly of the major capsid protein L1 alone or together with the minor capsid protein L2 has been obtained. Both spherical virus-like particles of 50-60 nm diameter and tubular structures of either 25-30 nm or 50...

...corresponding to empty papillomavirus capsids. Immunoelectron microscopy confirmed the presence of L1 and L2 in the virus-like particles. The L2 protein seemed to be modified and was shown to be tightly associated with L1 using density gradient and sedimentation analysis. Approximately 50% of the L1 molecules are cross-linked by intermolecular disulfide bonds. This is the first example for the production of HPV-like particles containing both the major and the minor capsid protein using the baculovirus expression system.

8/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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09329145 PMID: 1318417

Phosphorylation of the budgerigar fledgling disease virus major capsid protein VP1.

Haynes J I; Consigli R A Spooner B S KS St U, Manhattan

Division of Biology, Kansas State University, Manhattan 66506-4901.

Journal of virology (UNITED STATES) Jul 1992, 66 (7) p4551-5, ISSN 0022-538X Journal Code: 0113724

Contract/Grant No.: CA07319; CA; NCI; CA09418; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... modifications of an initial translation product. Primary chicken embryo cells were infected in the presence of 32Pi to determine whether the virus structural proteins were modified by phosphorylation. SDS-PAGE of the purified virus structural proteins demonstrated that VP1 (along with both minor capsid proteins) was phosphorylated. Two-dimensional analysis of the radiolabeled virus showed phosphorylation of only the two most acidic isoelectric species of VP1, indicating that this...

8/3,K/6 (Item 1 from file: 159)

DIALOG(R) File 159:Cancerlit

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01778638 PMID: 89655093

EXPRESSION AND CHARACTERIZATION OF THE HUMAN PAPILLOMAVIRUS TYPE 6B OPEN READING FRAME PROTEINS.

Li

Johns Hopkins Univ., Baltimore, MD
 Diss Abstr Int [B] 1989, 49 (7), ISSN 0419-4217
 Document Type: THESIS
 Languages: ENGLISH
 Main Citation Owner: NOTNLM
 Record type: Completed

... HPV-1-induced (58 kD) and HPV-6/11-induced (56 kD) papillomas. The viral L1 protein has a basic isoelectric point and is probably **modified**. The synthetic peptide antiserum recognized the 56- to 58-kD protein in HPV-6-induced warts, but not in HPV-1- or HPV-11-infected...

... in superficial epithelium. The detected molecular mass and the histological distribution of the L1 protein confirmed that the L1 ORF product is the major viral **capsid protein** which contains the genus-specific (common) antigens. Using the fusion protein as antigen in immunoassays, corresponding antibodies in human sera were detected. A 27-kD ...

...with an approx 68-kD protein only in HPV-6, -11 infected condylomas. The observed size matched with the size (68-76 kD) of the **minor capsid** proteins reported in the literature. The L2 ORF probably encodes a minor viral **capsid protein** which is less cross-reactive than the major **capsid protein** encoded by the L1 ORF. (Full text available from University Microfilms International, Ann Arbor, MI, as Order No: AAD88-19081)

8/3,K/7 (Item 1 from file: 73)
 DIALOG(R)File 73:EMBASE
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05079713 EMBASE No: 1992219929

Phosphorylation of the budgerigar fledgling disease virus major capsid protein VP1

Haynes II J.I.; Consigli R.A.
 Division of Biology, Ackert Hall, Kansas State University, Manhattan, KS
 66506-4901 United States
 Journal of Virology (J. VIROL.) (United States) 1992, 66/7 (4551-4555)
 CODEN: JOVIA ISSN: 0022-538X
 DOCUMENT TYPE: Journal; Article
 LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...budgerigar fledgling disease virus, the first known nonmammalian polyomavirus, were analyzed by isoelectric focusing and sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE). The major **capsid protein** VP1 was found to be composed of at least five distinct species having isoelectric points ranging from pH 6.45 to 5.85. By analogy...

...initial translation product. Primary chicken embryo cells were infected in the presence of sup 3sup 2P(i) to determine whether the virus structural proteins were **modified** by phosphorylation. SDS-PAGE of the purified virus structural proteins demonstrated that VP1 (along with both **minor capsid** proteins) was phosphorylated. Two-dimensional analysis of the radiolabeled virus showed phosphorylation of only the two most acidic isoelectric species of VP1, indicating that this...

?

S (TARGETED (W) ADENOVIRAL (W) VECTOR?)

130143 TARGETED

19252 ADENOVIRAL

381727 VECTOR?

S9 64 (TARGETED (W) ADENOVIRAL (W) VECTOR?)

?

S S9 AND ((CAPSID (W) PROTEIN) OR PIX OR PIIIA)

64 S9

38937 CAPSID
4312026 PROTEIN
12735 CAPSID(W) PROTEIN
618 PIX
34 PIIIA
S10 2 S9 AND ((CAPSID (W) PROTEIN) OR PIX OR PIIIA)

?
RD
...completed examining records
S11 2 RD (unique items)
?
T S11/3,K/ALL

11/3,K/1 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
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11607395 EMBASE No: 2002177961
Targeted adenoviral vectors
Barnett B.G.; Crews C.J.; Douglas J.T.
J.T. Douglas, Gene Therapy Center, University of Alabama, BMR2 434, 901
19th Street South, Birmingham, AL 35294-2172 United States
AUTHOR EMAIL: Joanne.Douglas@ccc.uab.edu
Biochimica et Biophysica Acta - Gene Structure and Expression (BIOCHIM.
BIOPHYS. ACTA GENE STRUCT. EXPR.) (Netherlands) 03 MAY 2002, 1575/1-3
(1-14)
CODEN: BBGSD ISSN: 0167-4781
PUBLISHER ITEM IDENTIFIER: S016747810200249X
DOCUMENT TYPE: Journal ; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 162

Targeted adenoviral vectors
DRUG DESCRIPTORS:
virus receptor--endogenous compound--ec; ligand; avidin; capsid protein
; technetium 99m

11/3,K/2 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

06934004 EMBASE No: 1997218503
Targeted adenoviral vectors for cancer gene therapy (review)
Douglas J.T.; Curiel D.T.
Dr. D.T. Curiel, University of Alabama, Gene Therapy Program, 1824 Sixth
Avenue South, Birmingham, AL 35294 United States
International Journal of Oncology (INT. J. ONCOL.) (Greece) 1997, 11/2
(341-348)
CODEN: IJONE ISSN: 1019-6439
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 66

Targeted adenoviral vectors for cancer gene therapy (review)
DRUG DESCRIPTORS:
* capsid protein
?

Set	Items	Description
S1	278	(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
S2	16	S1 (S) (ADENOVIRUS OR ADENOVIRAL)
S3	6	RD (unique items)
S4	16	S1 AND (ADENOVIRUS OR ADENOVIRAL)
S5	6	RD (unique items)

S6 0 S5 NOT S3
 S7 18 S1 AND ((MINOR (W) CAPSID) OR PIIIA OR PIX)
 S8 7 RD (unique items)
 S9 64 (TARGETED (W) ADENOVIRAL (W) VECTOR?)
 S10 2 S9 AND ((CAPSID (W) PROTEIN) OR PIX OR PIIIA)
 S11 2 RD (unique items)

?
 S S9 AND (SINGLE (W) CHAIN (W) ANTIBODY)
 64 S9
 1906439 SINGLE
 1106213 CHAIN
 1333646 ANTIBODY
 2254 SINGLE(W)CHAIN(W)ANTIBODY
 S12 5 S9 AND (SINGLE (W) CHAIN (W) ANTIBODY)

?
 RD
 ...completed examining records
 S13 2 RD (unique items)

?
 T S13/3,K/ALL

13/3,K/1 (Item 1 from file: 155)
 DIALOG(R)File 155:MEDLINE(R)
 (c) format only 2004 The Dialog Corp. All rts. reserv.

12004961 PMID: 12221644
Epidermal growth factor receptor targeting enhances adenoviral vector based suicide gene therapy of osteosarcoma.
 Witlox M A; Van Beusechem V W; Grill J; Haisma H J; Schaap G; Bras J; Van Diest P; De Gast A; Curiel D T; Pinedo H M; Gerritsen W R; Wuisman P I J M
 Department of Orthopedic Surgery, Vrije Universiteit Medical Center, Amsterdam, The Netherlands.
 journal of gene medicine (England) Sep-Oct 2002, 4 (5) p510-6,
 ISSN 1099-498X Journal Code: 9815764
 Contract/Grant No.: N01-97110; PHS; P50 CA 89019; CA; NCI; R01 CA 74242; CA; NCI
 Document type: Journal Article
 Languages: ENGLISH
 Main Citation Owner: NLM
 Record type: Completed

...primary tumor samples and FACS analysis on primary short-term cultures and four OS cell lines showed that EGFR was consistently expressed. The recombinant bispecific **single - chain antibody** 425-s11 redirects adenoviral vectors towards the EGFR. Adenovirus transduction experiments in the presence or absence of 425-s11 showed significantly enhanced gene transfer with the **targeted adenoviral vector** compared with the native vector (OS cell lines 2.5 to 7.2 times enhanced gene transfer and OS primary short term cultures 1.7...

13/3,K/2 (Item 2 from file: 155)
 DIALOG(R)File 155:MEDLINE(R)
 (c) format only 2004 The Dialog Corp. All rts. reserv.

11688875 PMID: 11861842
Efficient and selective gene transfer into primary human brain tumors by using single - chain antibody- targeted adenoviral vectors with native tropism abolished.
 van Beusechem Victor W; Grill Jacques; Mastenbroek D C Jeroen; Wickham Thomas J; Roelvink Peter W; Haisma Hidde J; Lamfers Martine L M; Dirven Clemens M F; Pinedo Herbert M; Gerritsen Winald R
 Division of Gene Therapy, Department of Medical Oncology, Vrije Universiteit Medical Center, Amsterdam, The Netherlands. vw.vanbeusechem.oncol@med.vu.nl

Journal of virology (United States) Mar 2002, 76 (6) p2753-62,
ISSN 0022-538X Journal Code: 0113724
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

**Efficient and selective gene transfer into primary human brain tumors by
using single - chain antibody-targeted adenoviral vectors with
native tropism abolished.**
?

Set	Items	Description
S1	278	(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
S2	16	S1 (S) (ADENOVIRUS OR ADENOVIRAL)
S3	6	RD (unique items)
S4	16	S1 AND (ADENOVIRUS OR ADENOVIRAL)
S5	6	RD (unique items)
S6	0	S5 NOT S3
S7	18	S1 AND ((MINOR (W) CAPSID) OR PIIIA OR PIX)
S8	7	RD (unique items)
S9	64	(TARGETED (W) ADENOVIRAL (W) VECTOR?)
S10	2	S9 AND ((CAPSID (W) PROTEIN) OR PIX OR PIIIA)
S11	2	RD (unique items)
S12	5	S9 AND (SINGLE (W) CHAIN (W) ANTIBODY)
S13	2	RD (unique items)

?
RD S9
...examined 50 records (50)
...completed examining records
S14 25 RD S9 (unique items)

?
S S14 NOT PY>1999
25 S14
7612711 PY>1999
S15 8 S14 NOT PY>1999

?
T S15/3,K/ALL

15/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

14500694 PMID: 10499635
**Selective gene delivery to head and neck cancer cells via an integrin
targeted adenoviral vector.**
Kasono K; Blackwell J L; Douglas J T; Dmitriev I; Strong T V; Reynolds P;
Kropf D A; Carroll W R; Peters G E; Bucy R P; Curiel D T; Krasnykh V
Gene Therapy Program, University of Alabama at Birmingham, 35294, USA.
Clinical cancer research - an official journal of the American
Association for Cancer Research (UNITED STATES) Sep 1999, 5 (9)
p2571-9, ISSN 1078-0432 Journal Code: 9502500
Contract/Grant No.: R01 CA68245-01; CA; NCI; R01 HL-50255; HL; NHLBI; ROI
CA74242; CA; NCI; +
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

**Selective gene delivery to head and neck cancer cells via an integrin
targeted adenoviral vector.**

15/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

14472219 PMID: 10467371

Tumor-specific gene transfer via an adenoviral vector targeted to the pan-carcinoma antigen EpCAM.

Haisma H J; Pinedo H M; Rijswijk A; der Meulen-Muileman I; Sosnowski B A; Ying W; Beusechem V W; Tillman B W; Gerritsen W R; Curiel D T

Gene Therapy Program, Department of Medical Oncology, University Hospital Vrije Universiteit, Amsterdam, The Netherlands.

Gene therapy (ENGLAND) Aug 1999, 6 (8) p1469-74, ISSN 0969-7128
Journal Code: 9421525

Contract/Grant No.: CA68245; CA; NCI; CA74242; CA; NCI; RO1 HL-50255; HL; NHLBI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... successfully mediate gene transfer to primary human colon cancer cells, whereas it almost completely abolished infection of liver cells. This work thus demonstrates that EpCAM- **targeted adenoviral vectors** can be specifically directed to a wide variety of adenocarcinomas. This approach may prove to be useful for selective gene therapy of cancer.

15/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

14360201 PMID: 10352250

Maturation of dendritic cells accompanies high-efficiency gene transfer by a CD40- targeted adenoviral □ □ vector □ □

Tillman B W; de Gruijl T D; Luykx-de Bakker S A; Scheper R J; Pinedo H M; Curiel T J; Gerritsen W R; Curiel D T

Gene Therapy Program, University of Alabama, Birmingham 35294, USA.

Journal of immunology (Baltimore, Md. - 1950) (UNITED STATES) Jun 1 1999, 162 (11) p6378-83, ISSN 0022-1767 Journal Code: 2985117R

Contract/Grant No.: R01CA74242; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Maturation of dendritic cells accompanies high-efficiency gene transfer by a CD40- targeted adenoviral □ □ vector □ □

15/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

14232731 PMID: 10026898

Targeted adenoviral vectors □ for cancer gene therapy. □

Bilbao G; Gomez-Navarro J; Curiel D T

Gene Therapy Program, University of Alabama at Birmingham, Alabama 35294, USA.

Advances in experimental medicine and biology (UNITED STATES) 1998, 451 p365-74, ISSN 0065-2598 Journal Code: 0121103

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Targeted adenoviral vectors □ for cancer gene therapy. □

15/3,K/5 (Item 5 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

13582158 PMID: 9267842

Strategies to accomplish targeted gene delivery to muscle cells employing tropism-modified adenoviral vectors.

Douglas J T; Curiel D T

Gene Therapy Program, University of Alabama at Birmingham 35294-3300, USA.

Neuromuscular disorders - NMD (ENGLAND) Jul 1997, 7 (5) p284-98,

ISSN 0960-8966 Journal Code: 9111470

Contract/Grant No.: R01 5025505; PHS

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...serotype 3. This modification altered the receptor recognition profile of the virus containing the fibre chimera. In an alternative approach to the generation of a **targeted adenoviral vector**, we conjugated folate to the neutralising Fab fragment of an anti-fibre monoclonal antibody. This Fab-folate conjugate was shown to redirect adenoviral infection of target cells via the folate receptor at a high efficiency. These studies suggest that it will be possible to achieve our goal of deriving **targeted adenoviral vectors** for muscle cell-specific gene delivery in vivo.

15/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11209468 PMID: 11249664

FGF2- targeted adenoviral vectors for systemic and local disease.

Sosnowski B A; Gu D L; D'Andrea M; Doukas J; Pierce G F

Selective Genetics Inc, 11035 Roselle St, San Diego, CA 92121, USA.
barbsosn@selectivegenetics.com

Current opinion in molecular therapeutics (England) Oct 1999, 1 (5)
p573-9, ISSN 1464-8431 Journal Code: 100891485

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

FGF2- targeted adenoviral vectors for systemic and local disease.

15/3,K/7 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0011313736 BIOSIS NO.: 199800107983

Improved radiolabeled peptide localization to gliomas through the use of targeted adenoviral vectors

AUTHOR: Miller R; Rogers B E (Reprint); Carpenter T (Reprint); Douglas J T; Gillespie G Y; Buchsbaum D J (Reprint); Curiel D T (Reprint); Raben D (Reprint)

AUTHOR ADDRESS: Dep. Radiat. Oncol., Univ. Ala. at Birmingham, Birmingham, AL 35294, USA**USA

JOURNAL: Cancer Gene Therapy 4 (6 CONF. SUPPL.): pS30-S31 Nov.-Dec., 1997
1997

MEDIUM: print

CONFERENCE/MEETING: Sixth International Conference on Gene Therapy of Cancer San Diego, California, USA November 20-22, 1997; 19971120

ISSN: 0929-1903

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation

LANGUAGE: English

**Improved radiolabeled peptide localization to gliomas through the use of
targeted adenoviral vectors**

15/3,K/8 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2004 BIOSIS. All rts. reserv.

0011060189 BIOSIS NO.: 199799694249

Targeted adenoviral vectors for cancer gene therapy (Review)

AUTHOR: Douglas Joanne T; Curiel David T (Reprint)

AUTHOR ADDRESS: Univ. Alabama at Birmingham, Gene Therapy Program, 1824
Sixth Avenue South, WTI 620, Birmingham, AL 35294, USA**USA

JOURNAL: International Journal of Oncology 11 (2): p341-348 1997 1997

ISSN: 1019-6439

DOCUMENT TYPE: Article; Literature Review

RECORD TYPE: Abstract

LANGUAGE: English

Targeted adenoviral vectors for cancer gene therapy (Review)

DESCRIPTORS:

MISCELLANEOUS TERMS: ... TARGETED ADENOVIRAL VECTOR TREATMENT
?

Set	Items	Description
S1	278	(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
S2	16	S1 (S) (ADENOVIRUS OR ADENOVIRAL)
S3	6	RD (unique items)
S4	16	S1 AND (ADENOVIRUS OR ADENOVIRAL)
S5	6	RD (unique items)
S6	0	S5 NOT S3
S7	18	S1 AND ((MINOR (W) CAPSID) OR PIIIA OR PIX)
S8	7	RD (unique items)
S9	64	(TARGETED (W) ADENOVIRAL (W) VECTOR?)
S10	2	S9 AND ((CAPSID (W) PROTEIN) OR PIX OR PIIIA)
S11	2	RD (unique items)
S12	5	S9 AND (SINGLE (W) CHAIN (W) ANTIBODY)
S13	2	RD (unique items)
S14	25	RD S9 (unique items)
S15	8	S14 NOT PY>1999

?

S S14 NOT S15

25 S14

8 S15

S16 17 S14 NOT S15

?

T S16/3,K/ALL

16/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

15327521 PMID: 14618628

**Retargeting of adenoviral infection to melanoma: combining genetic
ablation of native tropism with a recombinant bispecific single-chain
diabody (scDb) adapter that binds to fiber knob and HMWMAA.**

Nettelbeck Dirk M; Rivera Angel A; Kupsch Jorg; Dieckmann Detlef; Douglas
Joanne T; Kontermann Roland E; Alemany Ramon; Curiel David T

Division of Human Gene Therapy, Department of Medicine, and the Gene
Therapy Center, University of Alabama at Birmingham, Birmingham, AL, USA.

dirk.nettelbeck@derma.imed.uni-erlangen.de

International journal of cancer. Journal international du cancer (United States) Jan 1 2004, 108 (1) p136-45, ISSN 0020-7136 Journal Code: 0042124

Contract/Grant No.: P30 A1-27767; PHS; P30AI27767; AI; NIAID; P50 CA89019 ; CA; NCI; R01 CA86881; CA; NCI; R01 HL67962; HL; NHLBI; U19 DK57958; DK; NIDDK

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... strategy mediates up to 54-fold increased adenoviral gene transfer to CAR-negative melanoma cells compared to the vector with native tropism. Hence, the HMWMAA- targeted adenoviral vector lacking native tropism exhibits both enhanced specificity and augmented infectivity of gene transfer to melanoma cells, suggesting that it is feasible to use this vector...

16/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

15319437 PMID: 12804140

Adenovirus serotype 5 fiber shaft influences in vivo gene transfer in mice.

Smith Theodore A G; Idamakanti Neeraja; Rollence Michele L; Marshall-Neff Jennifer; Kim Jin; Mulgrew Kathy; Nemerow Glen R; Kaleko Michael; Stevenson Susan C

Genetic Therapy, Inc., a Novartis Company, Gaithersburg, MD 20878, USA.

Human gene therapy (United States) May 20 2003, 14 (8) p777-87,

ISSN 1043-0342 Journal Code: 9008950

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... integrins influence gene delivery to the lung, spleen, heart, and kidney. The detargeted vector constructs described here may provide a foundation for the development of targeted adenoviral vectors .

16/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

12185888 PMID: 12522442

Adenoviral vectors: systemic delivery and tumor targeting.

Green Nicola K; Seymour Leonard W

Department of Clinical Pharmacology, University of Oxford, Radcliffe Infirmary, Oxford, UK. nicky.green@clinpharm.ox.ac.uk

Cancer gene therapy (England) Dec 2002, 9 (12) p1036-42, ISSN 0929-1903 Journal Code: 9432230

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The development of a targeted adenoviral vector , which can be delivered systemically, is one of the major challenges facing cancer gene therapy. The virus is readily cleared from the bloodstream, can be...

16/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

12070921 PMID: 12396621

Selective gene transfer into primary human gastric tumors using epithelial cell adhesion molecule- targeted adenoviral vectors with ablated native tropism.

Heideman Danielle A M; van Beusechem Victor W; Offerhaus G Johan A; Wickham Thomas J; Roelvink Peter W; Craanen Mikael E; Pinedo Herbert M; Meijer Chris J L M; Gerritsen Winald R

Division of Gene Therapy, Department of Medical Oncology, Vrije Universiteit Medical Center, 1007 MB Amsterdam, The Netherlands.

Human gene therapy (United States) Sep 20 2002, 13 (14) p1677-85, ISSN 1043-0342 Journal Code: 9008950

Document type: Evaluation Studies; Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Selective gene transfer into primary human gastric tumors using epithelial cell adhesion molecule- targeted adenoviral vectors with ablated native tropism.

16/3,K/5 (Item 5 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

12066115 PMID: 12391253

Prolonged maturation and enhanced transduction of dendritic cells migrated from human skin explants after in situ delivery of CD40- targeted adenoviral vectors .

de Gruijl Tanja D; Luykx-de Bakker Sylvia A; Tillman Bryan W; van den Eertwegh Alfons J M; Buter Jan; Loughheed Sinead M; van der Bij Gerben J; Safer A Mahmoud; Haisma Hidde J; Curiel David T; Scheper Rik J; Pinedo Herbert M; Gerritsen Winald R

Division of Immunotherapy, Department of Medical Oncology, Vrije Universiteit University Medical Center, Amsterdam, The Netherlands.

Journal of immunology (Baltimore, Md. - 1950) (United States) Nov 1 2002, 169 (9) p5322-31, ISSN 0022-1767 Journal Code: 2985117R

Contract/Grant No.: P50 CA89019; CA; NCI; R01 CA86881; CA; NCI; R01 HL67962; HL; NHLBI; U19 DK57958; DK; NIDDK

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Prolonged maturation and enhanced transduction of dendritic cells migrated from human skin explants after in situ delivery of CD40- targeted adenoviral vectors .

16/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

12004961 PMID: 12221644

Epidermal growth factor receptor targeting enhances adenoviral vector based suicide gene therapy of osteosarcoma.

Witlox M A; Van Beusechem V W; Grill J; Haisma H J; Schaap G; Bras J; Van Diest P; De Gast A; Curiel D T; Pinedo H M; Gerritsen W R; Wuisman P I J M
Department of Orthopedic Surgery, Vrije Universiteit Medical Center, Amsterdam, The Netherlands.

journal of gene medicine (England) Sep-Oct 2002, 4 (5) p510-6, ISSN 1099-498X Journal Code: 9815764

Contract/Grant No.: N01-97110; PHS; P50 CA 89019; CA; NCI; R01 CA 74242; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... s11 redirects adenoviral vectors towards the EGFR. Adenovirus transduction experiments in the presence or absence of 425-s11 showed significantly enhanced gene transfer with the **targeted adenoviral vector** compared with the native vector (OS cell lines 2.5 to 7.2 times enhanced gene transfer and OS primary short term cultures 1.7...

16/3,K/7 (Item 7 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11830258 PMID: 12020813

Targeted adenoviral vectors□.□

Barnett Brian G; Crews C Jefferson; Douglas Joanne T

Department of Medicine, Division of Human Gene Therapy and Gene Therapy Center, University of Alabama at Birmingham, Birmingham, AL 35294, USA.

Biochimica et biophysica acta (Netherlands) May 3 2002, 1575 (1-3)

p1-14, ISSN 0006-3002 Journal Code: 0217513

Contract/Grant No.: 5T32 CA09467; CA; NCI; R03 AR46864-01; AR; NIAMS

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Targeted adenoviral vectors□.□

16/3,K/8 (Item 8 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11739602 PMID: 11916485

Effective gene transfer to human melanomas via integrin- targeted adenoviral vectors .

Nakamura Takafumi; Sato Kenzo; Hamada Hirofumi

Department of Molecular Medicine, Sapporo Medical University, S1 W17, Chuo-ku, Sapporo 060-8556, Japan.

Human gene therapy (United States) Mar 20 2002, 13 (5) p613-26,

ISSN 1043-0342 Journal Code: 9008950

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Effective gene transfer to human melanomas via integrin- targeted adenoviral vectors .

... F/RGD was more effective than intratumoral injection of AxCAhIL2-F/wt in regressing tumors in a melanoma xenograft model. These data suggest that integrin- **targeted adenoviral vectors** may be a powerful tool in gene therapy for CAR-deficient melanomas.

16/3,K/9 (Item 9 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11721314 PMID: 11898504

Progress in gene therapy for Duchenne muscular dystrophy.

Clemens P R; Duncan F J
Department of Neurology, University of Pittsburgh, Room S-515 Biomedical
Science Tower South, Pittsburgh, PA 15213, USA. pclemens+pitt.edu
Current neurology and neuroscience reports (United States) Jan 2001, 1
(1) p89-96, ISSN 1528-4042 Journal Code: 100931790
Document type: Journal Article; Review; Review, Tutorial
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

...patients are not yet in clinical use, recent advances using DMD animal
models are encouraging. Progress in vector design, such as high-capacity
adenoviral vectors, **targeted adenoviral vectors**, and
heterodimerization of DNA delivered by adeno-associated virus (AAV) vectors
have advanced the field considerably. The recent studies into the
pharmacologic-induced read-through...

16/3,K/10 (Item 10 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

11688875 PMID: 11861842
**Efficient and selective gene transfer into primary human brain tumors by
using single-chain antibody- targeted adenoviral vectors with native
tropism abolished.**

van Beusechem Victor W; Grill Jacques; Mastenbroek D C Jeroen; Wickham
Thomas J; Roelvink Peter W; Haisma Hidde J; Lamfers Martine L M; Dirven
Clemens M F; Pinedo Herbert M; Gerritsen Winald R

Division of Gene Therapy, Department of Medical Oncology, Vrije
Universiteit Medical Center, Amsterdam, The Netherlands. vw.van
beusechem.oncol@med.vu.nl

Journal of virology (United States) Mar 2002, 76 (6) p2753-62,
ISSN 0022-538X Journal Code: 0113724
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

**Efficient and selective gene transfer into primary human brain tumors by
using single-chain antibody- targeted adenoviral vectors with native
tropism abolished.**

16/3,K/11 (Item 11 from file: 155)
DIALOG(R) File 155:MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

11383983 PMID: 11477454
**Selective gene delivery toward gastric and esophageal adenocarcinoma
cells via EpCAM- targeted adenoviral □ □ vectors□.□**

Heideman D A; Snijders P J; Craanen M E; Bloemena E; Meijer C J;
Meuwissen S G; van Beusechem V W; Pinedo H M; Curiel D T; Haisma H J;
Gerritsen W R

Department of Gastroenterology, University Hospital Vrije Universiteit,
Amsterdam. dam.heideman@avzu.nl

Cancer gene therapy (England) May 2001, 8 (5) p342-51, ISSN
0929-1903 Journal Code: 9432230

Contract/Grant No.: NO1 CO-97110; CO; NCI; R01 CA74242; CA; NCI; R01
HL50255; HL; NHLBI

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Selective gene delivery toward gastric and esophageal adenocarcinoma cells via EpCAM- targeted adenoviral□ □ vectors□.□

... human cells, an improved ratio of tumor transduction over normal epithelium transduction was accomplished by the EpCAM-targeted vectors. This study thus indicates that EpCAM- targeted adenoviral vectors may be useful for gastric and esophageal cancer-specific gene therapy in patients.

16/3,K/12 (Item 12 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11348526 PMID: 11438831

Improved gene transfer efficiency to primary and established human pancreatic carcinoma target cells via epidermal growth factor receptor and integrin- targeted adenoviral□ □ vectors□.□

Wesseling J G; Bosma P J; Krasnykh V; Kashentseva E A; Blackwell J L; Reynolds P N; Li H; Parameshwar M; Vickers S M; Jaffee E M; Huibregtse K; Curiel D T; Dmitriev I

Department of Experimental Hepatology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands.

Gene therapy (England) Jul 2001, 8 (13) p969-76, ISSN 0969-7128

Journal Code: 9421525

Contract/Grant No.: IT32 CA75930; CA; NCI; NO1 CO-97110; CO; NCI; RO1 CA 74242; CA; NCI; RO1 HL 50255; HL; NHLBI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Improved gene transfer efficiency to primary and established human pancreatic carcinoma target cells via epidermal growth factor receptor and integrin- targeted adenoviral□ □ vectors□.□

16/3,K/13 (Item 13 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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11192011 PMID: 11222722

Adenovirus type 5 viral particles pseudotyped with mutagenized fiber proteins show diminished infectivity of coxsackie B-adenovirus receptor-bearing cells.

Jakubczak J L; Rollence M L; Stewart D A; Jafari J D; Von Seggern D J; Nemerow G R; Stevenson S C; Hallenbeck P L

Genetic Therapy, Inc./A Novartis Company, Gaithersburg, Maryland 20878, USA.

Journal of virology (United States) Mar 2001, 75 (6) p2972-81,

ISSN 0022-538X Journal Code: 0113724

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...ablate CAR interaction should result in a detargeted adenoviral vector that can be combined simultaneously with novel ligands for the development of a systemically administered, targeted adenoviral vector .

16/3,K/14 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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0013802189 BIOSIS NO.: 200200395700

A novel EBV- targeted adenoviral vector utilizing a non-cleavable FasL for nasopharyngeal cancer therapy

AUTHOR: Liu Fei-Fei (Reprint); Li Jian-Hua; Chia Marie; Medin Jeff; Huang Dolly; Klamut Henry; Yeh Wen-Chen; Richardson Chris; Shi Willa
AUTHOR ADDRESS: Princess Margaret Hospital, Toronto, ON, Canada**Canada
JOURNAL: Proceedings of the American Association for Cancer Research Annual Meeting 43 p662 March, 2002 2002
MEDIUM: print
CONFERENCE/MEETING: 93rd Annual Meeting of the American Association for Cancer Research San Francisco, California, USA April 06-10, 2002; 20020406
ISSN: 0197-016X
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation
LANGUAGE: English

A novel EBV- targeted adenoviral vector utilizing a non-cleavable FasL for nasopharyngeal cancer therapy

16/3,K/15 (Item 2 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013582136 BIOSIS NO.: 200200175647

High efficiency gene transfer to pancreatic cancer cells using epidermal growth factor receptor and integrin targeted adenoviral vectors

AUTHOR: Wesseling John G (Reprint); Yamamoto Masato; Bosma Piter J; Krasnykh Victor; Blackwell Jerry L; Vickers Salwyn M; Dmitriev Igor; Curiel David T
AUTHOR ADDRESS: Univ of Amsterdam, Amsterdam, Netherlands**Netherlands
JOURNAL: Gastroenterology 120 (5 Supplement 1): pA.11 April, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: 102nd Annual Meeting of the American Gastroenterological Association and Digestive Disease Week Atlanta, Georgia, USA May 20-23, 2001; 20010520
SPONSOR: American Gastroenterological Association
American Association for the Study of Liver Diseases
American Society for Gastrointestinal Endoscopy
Society for Surgery of the Alimentary Tract
ISSN: 0016-5085
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation
LANGUAGE: English

High efficiency gene transfer to pancreatic cancer cells using epidermal growth factor receptor and integrin targeted adenoviral vectors

16/3,K/16 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013000807 BIOSIS NO.: 200100172646

The development of a novel Epstein Barr virus- targeted adenoviral vector for cancer gene therapy

AUTHOR: Li J-H (Reprint); Strathdee C; Huang D; Klamut H J (Reprint); Liu F-F (Reprint)
AUTHOR ADDRESS: Ontario Cancer Institute, Toronto, ON, Canada**Canada
JOURNAL: Cancer Gene Therapy 7 (12): pS10 December, 2000 2000
MEDIUM: print
CONFERENCE/MEETING: Ninth International Conference on Gene Therapy of Cancer San Diego, California, USA December 07-09, 2000; 20001207
ISSN: 0929-1903
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation

LANGUAGE: English

The development of a novel Epstein Barr virus- targeted adenoviral vector for cancer gene therapy

16/3,K/17 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0012779506 BIOSIS NO.: 200000497819
Targeted adenoviral vector -mediated gene transfer to hepatocellular carcinoma cells using AF-20 monoclonal antibodies
AUTHOR: Fukutomi Takayoshi (Reprint); de la Monte Suzanne M (Reprint); Tamaki Seishu (Reprint); Maeda Takashi (Reprint); O'Riordan Catherine; Wands Jack R
AUTHOR ADDRESS: Liver Research Ctr, Providence, RI, USA**USA
JOURNAL: Hepatology 32 (4 Pt. 2): p182A October, 2000 2000
MEDIUM: print
CONFERENCE/MEETING: 51st Annual Meeting and Postgraduate Courses of the American Association for the Study of Liver Diseases Dallas, Texas, USA October 27-31, 2000; 20001027
SPONSOR: American Association for the Study of Liver Diseases
ISSN: 0270-9139
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation
LANGUAGE: English

Targeted adenoviral vector -mediated gene transfer to hepatocellular carcinoma cells using AF-20 monoclonal antibodies

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Set	Items	Description
S1	278	(MODIFIED OR MODIFYING) (S) (CAPSID (W) PROTEIN)
S2	16	S1 (S) (ADENOVIRUS OR ADENOVIRAL)
S3	6	RD (unique items)
S4	16	S1 AND (ADENOVIRUS OR ADENOVIRAL)
S5	6	RD (unique items)
S6	0	S5 NOT S3
S7	18	S1 AND ((MINOR (W) CAPSID) OR PIIIA OR PIX)
S8	7	RD (unique items)
S9	64	(TARGETED (W) ADENOVIRAL (W) VECTOR?)
S10	2	S9 AND ((CAPSID (W) PROTEIN) OR PIX OR PIIIA)
S11	2	RD (unique items)
S12	5	S9 AND (SINGLE (W) CHAIN (W) ANTIBODY)
S13	2	RD (unique items)
S14	25	RD S9 (unique items)
S15	8	S14 NOT PY>1999
S16	17	S14 NOT S15

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